

IN THE CLAIMS

1. (Previously Presented) A layered low dielectric constant nanoporous material comprising:
a first polymer layer on the surface of a substrate;
a second layer that comprises a nanoporous material and is on the surface of the first layer; and
an additional polymer layer at least partially on the surface of the second layer and at least partially infiltrating the pores of the second layer, wherein the infiltrating layer reinforces the strength of the underlying nanoporous material by coating the surfaces containing the pores.
2. (Original) The material of claim 1, wherein the low dielectric constant material has a dielectric constant no more than 2.5.
3. (Previously Presented) The material of claim 1, wherein the first polymer layer is a nanoporous material.
4. (Currently Amended) The material of claim 1, wherein the polymer of the first polymer layer is organic.
5. (Currently Amended) The material of claim 4, wherein the polymer comprises poly(arylene ether).

Claims 6-8: Canceled.

10. (Original) The material of claim 1, wherein the second layer substantially comprises a nanoporous polymer.
11. (Currently Amended) The material of claim 10, wherein the polymer comprises at least one of a poly(arylene ether) or an adamantane-based compound.
12. (Previously Presented) The material of claim 1, wherein the additional layer comprises an organic polymer.

13. (Currently Amended) The material of claim 12, wherein the organic compound substantially comprises at least one of a poly(arylene ether) or an adamantane-based compound.
14. (Previously Presented) The material of claim 1, wherein the nanoporous material comprises pores having a mean diameter of less than 100 nanometers.
15. (Original) The material of claim 1, further comprising a layer of metal wire between the substrate and the first layer.

Claim 16: Canceled.

17. (Original) The material of claim 15, wherein the metal wire is aluminum or copper.

Claims 18-33: Canceled.

34. (Previously Presented) The material of claim 3, wherein the nanoporous material of at least one of the first layer or the second layer comprises an adamantane-based compound.
35. (Previously Presented) The material of claim 3, wherein the nanoporous material of the first layer comprises a first material and the nanoporous material of the second layer comprises a second material.
36. (Previously Presented) The material of claim 35, wherein the first material and the second material each comprise a polymer.

Claims 37-39: Canceled.

40. (Currently Amended) The material of claim 36, wherein the first material comprises an organic polymer and the second material comprises an inorganic ~~polymer~~ component.
41. (Currently Amended) The material of claim 36, wherein the first material comprises an inorganic ~~polymer~~ component and the second material comprises an organic polymer.

Claims 42-43: Canceled.